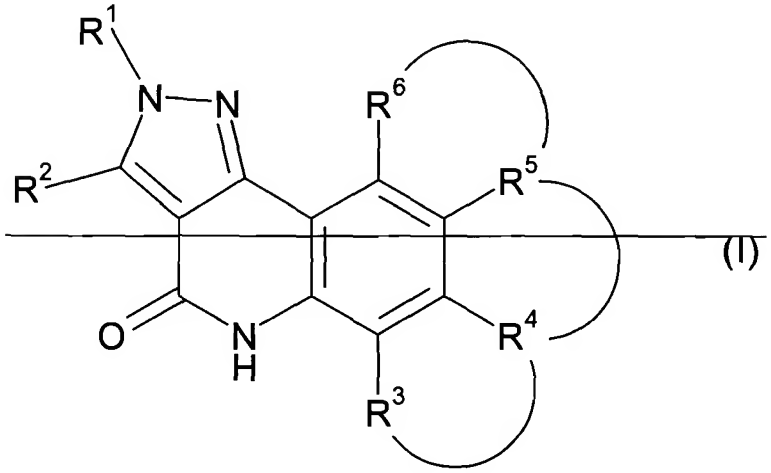
Amendment to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

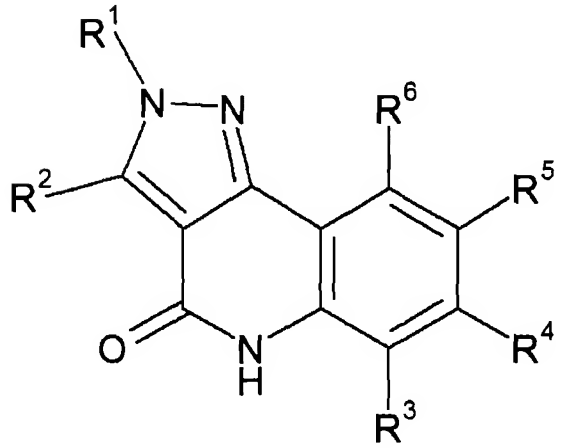
Listing of Claims:

1-5. (Canceled)

6. (Currently Amended) A compound represented by the formula:



(I)



(I)

wherein R^1 is:

(1) a C_{6-12} aryl group which may be substituted with 1 to 3 substituents selected from:

(a) a C_{1-6} alkyl group which may be substituted with 1 to 3 substituents selected from

(i) a halogen atom,

(ii) a hydroxy group, and

(iii) a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from a hydroxy group and a C_{1-6} alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

(b) a C_{1-6} alkoxy group which may be substituted with a substituent selected from

(i) a hydroxy group,

(ii) a C_{1-6} alkoxy group,

(iii) a carboxy group,

(iv) a C_{1-6} alkoxy-carbonyl group,

(v) a carbamoyl group,

(vi) a carbamoyl group which is mono- or di-substituted with a C_{1-6} alkyl group which may be substituted with a substituent selected from a hydroxy group and a C_{1-6} alkylsulfonyl group,

(vii) a cyano group, and

(viii) a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

(c) a halogen atom;

(d) a hydroxy group;

(e) an amino group;

(f) a nitro group;

(g) a carboxy group;

(h) a C_{1-6} alkoxy-carbonyl group;

(i) a C_{1-6} alkyl-carbonyloxy group;

(j) a C_{6-12} aryloxy group which may be substituted with a substituent selected from a halogen atom, a hydroxy group and a C_{1-6} alkoxy group;

(k) a C_{6-14} aralkyloxy group;

(l) a C_{3-7} cycloalkyloxy group;

(m) a 5- to 8-membered heterocyclic-oxy group which may be substituted with a C_{1-6} alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

(n) a C_{1-6} alkylsulfonyl group; and

(o) a C_{6-12} arylsulfonyl group,

or

(2) a 5- or 6-membered aromatic heterocyclic group which may be substituted with 1 to 3 substituents selected from:

(a) a C_{1-6} alkyl group, and

(b) a C_{1-6} alkoxy group,

and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom, or a group resulting from condensation of the 5- or 6-membered aromatic heterocyclic group with a benzene ring;

R^2 is:

(1) a hydrogen atom, or

(2) an amino group which may be mono- or di-substituted with a C_{1-6} alkyl group;

R^3 is a hydrogen atom;

R^4 is:

(1) an amino group,

(2) a hydroxy group, or

(3) a group represented by the formula:

$-X''(CH_2)_{b''}-R^{11''}$

wherein X'' is –O-, $-NHSO_2-$, -NHCO- or $-NR^{12''}-$ (wherein $R^{12''}$ is a hydrogen atom, or a C_{1-6} alkyl group which may be substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom),

b'' is an integer from 1 to 4, and

$R^{11''}$ is a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from

(a) a hydroxy group, and

(b) a C_{1-6} alkyl group,

and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R^5 is:

(1) a hydrogen atom,

(2) a C_{1-6} alkoxy group, or

(3) a group represented by the formula:

$-O-(CH_2)_{b'''}-R^{11'''}$

wherein b''' is an integer from 2 to 4, and

$R^{11'''}$ is a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from

(a) a C_{1-6} alkyl group, and

(b) a C_{6-14} aryl group which may be substituted with a halogen atom, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R^6 is:

(1) a hydrogen atom,

(2) a hydroxy group,

(3) a C_{1-6} alkoxy group which may be substituted with a substituent selected from:

(a) a hydroxy group,

(b) a C_{1-6} alkoxy group,

(c) a carboxy group,

(d) a C_{1-6} alkoxy-carbonyl group,

(e) a carbamoyl group,

(f) a carbamoyl group which is mono- or di-substituted with a C_{1-6} alkyl group which may be substituted with an amino group which may be mono- or di-substituted with a C_{1-6} alkyl group,

(g) a carbamoyl group which is mono- or di-substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom, and

(h) a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with a C_{1-6} alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom,

(4) a C_{7-14} aralkyloxy group, or

(5) a group represented by the formula:

$-O-(CH_2)_{b''''}-R^{11''''}$

wherein b'''' is an integer from 1 to 4, and

$R^{11''''}$ is a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

7. (Previously presented) The compound according to Claim 6, wherein R^1 is a C_{6-12} aryl group which may be substituted with 1 to 3 substituents selected from:

(a) a C_{1-6} alkyl group which may be substituted with 1 to 3 substituents selected from:

(i) a halogen atom,

(ii) a hydroxy group, and

(iii) a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from a hydroxy group, a halogen atom and a C_{1-6} alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom,

(b) a C_{1-6} alkoxy group which may be substituted with a substituent selected from:

(i) a hydroxy group,

(ii) a C_{1-6} alkoxy group,

(iii) a carboxy group,

(iv) a C_{1-6} alkoxy-carbonyl group,

(v) a carbamoyl group, and

(vi) a carbamoyl group which is mono- or di-substituted with a C_{1-6} alkyl group,

(c) a halogen atom,

(d) a hydroxy group,

(i) a C_{1-6} alkyl-carbonyloxy group,

(j) a C_{6-12} aryloxy group which may be substituted with a halogen atom, and

(m) a 5- to 8-membered heterocyclic-oxy group which may be substituted with a C_{1-6} alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R^2 is:

(1) a hydrogen atom, or

(2) an amino group which may be mono- or di-substituted with a C_{1-6} alkyl group;

R^3 is a hydrogen atom;

R^4 is:

(1) an amino group,

(2) a hydroxy group, or

(3) a group represented by the formula:

$-X''(CH_2)_{b''}-R^{11''}$

wherein X'' is –O-, $-NR^{12''}-$ (wherein $R^{12''}$ is a hydrogen atom, or a C_{1-6} alkyl group which may be substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom);

b'' is an integer from 1 to 4; and

$R^{11''}$ is a 5- to 8-membered heterocyclic group which may be substituted with a substituent selected from:

(a) a hydroxy group, and

(b) a C_{1-6} alkyl group,

and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom;

R^5 is:

(1) a hydrogen atom, or

(2) a C_{1-6} alkoxy group;

R^6 is:

(1) a hydrogen atom, or

(2) a C_{1-6} alkoxy group which may be substituted with a substituent selected from:

(a) a hydroxy group,

(b) a C_{1-6} alkoxy group,

(c) a carboxy group,

(d) a C_{1-6} alkoxy-carbonyl group,

(e) a carbamoyl group,

(f) a carbamoyl group which is mono- or di-substituted with a C_{1-6} alkyl group which may be substituted with an amino group which may be mono- or di-substituted with a C_{1-6} alkyl group,

(g) a carbamoyl group which is mono- or di-substituted with a 5- to 8-membered heterocyclic group having 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom, and

(h) a 5- to 8-membered heterocyclic-carbonyl group which may be substituted with a C_{1-6} alkyl group, and has 1 to 3 heteroatoms selected from a nitrogen atom, an oxygen atom and a sulfur atom.

8-15. (Canceled)

16. (Previously presented) The compound according to Claim 6, which is 3-amino-2-(2-chloro-5-hydroxyphenyl)-7-(3-morpholin-4-ylpropoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(2-chloro-5-hydroxyphenyl)-7-(2-morpholin-4-ylethoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-7-(3-morpholin-4-ylpropoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, 3-amino-2-(5-hydroxy-2-methylphenyl)-7-(2-morpholin-4-ylethoxy)-2,5-dihydro-4H-pyrazolo[4,3-c]quinolin-4-one, or a salt thereof.

17. (Canceled)

18. (Currently Amended) A medicine comprising the compound according to Claim [[1]] 6.

19-27. (Canceled)